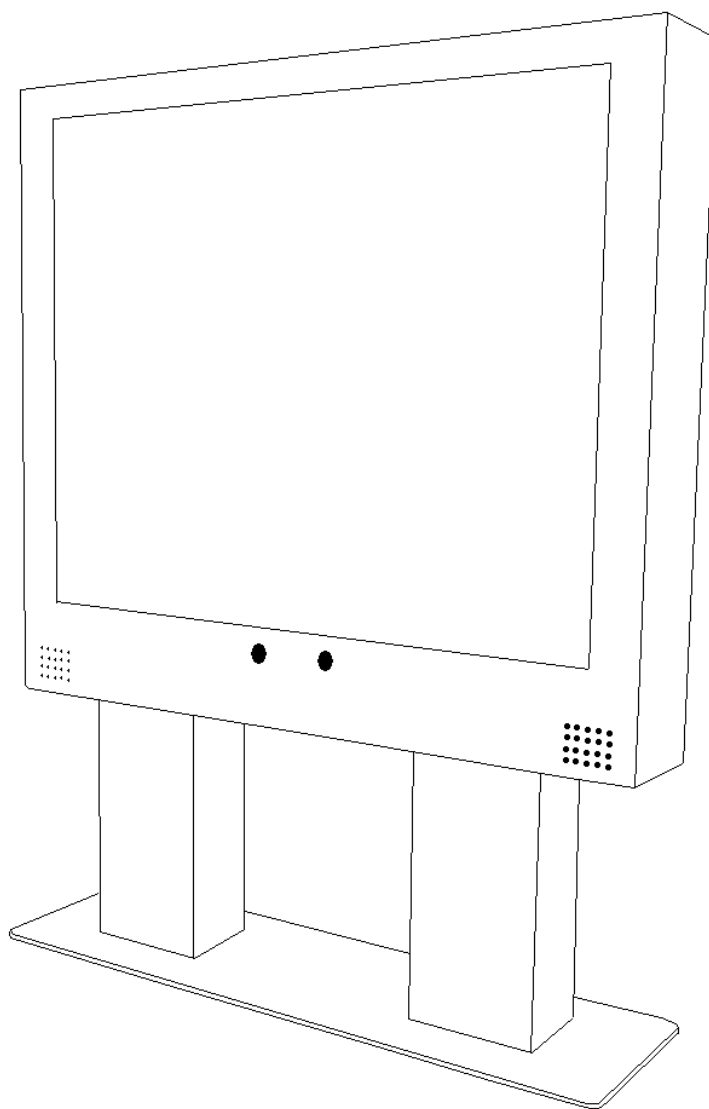


Digital Media Topper  
Instruction Guide 2011



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## Introduction

The Genmega Digital Media Topper sign is designed to display both static images as well as full motion video. The media can be stored locally at the machine via its internal flash memory or downloaded through a web-server over the internet.

Using a web-server, you can control the content of 9,999 individual topper signs (using unique IDs) or an unlimited number of toppers using the same ID.

When set in Client / Server mode, the Digital Media Topper will connect to the web-server at pre-determined intervals and update its internal playlist as well as download any changed or added content and media.

The digital topper checks specified folder on the server if (1) the playlist is modified and (2) the size of file listed in the playlist is changed. When any change is detected from any of these two validations, the digital topper updates the playlist and the file(s) and will make the change effective right after the update.

The digital topper package includes

- Digital topper
- Mounting Bracket (ATM Specific)
- Remote control
- 1GB Compact Flash Card (packaged separately)
- 2 Keys for topper rear access panel
- Mounting bolts for topper bracket
- Nylon cable ties to secure wiring.

## Specifications

### Hardware Specs:

Overall Size	• 17 ¼ W x 21 ½ H x 2 ¾ D (inches)
LCD Display	• 19-inch TFT LCD • Brightness of 350 cd
DC Adaptor	• AC In 115-240V, 50/60Hz, 1.5A • DC Out 12V, 4A
Internal Flash Memory	• 1GB
Memory Slot Type	• Compact Flash or Secure Digital (SD)
Photo Display Resolution	• XGA (1024x768)
Media Type	• Picture • Video • Music (background for pictures slide show)
Video Play Resolution	• VGA (640x480)
Audio Speaker	• Two stereo speakers, 2W each
Operating Temperature	• 0°C ~ 50°C

### Media Specs:

Media Type	File Extension	Resolution, Size	Application
Photo	JPG	<5000x5000 pixels, <50MB 1024x768 recommended	DSC, Illust, Photo shop (RGB color table)
Music	MP3	No limit	Any kinds of MP3
Movie*	MPG	MPEG-1 standard	DSC, MPEG-encoder
	AVI	MJPEG standard	Commercial Editor: Director, Premiere
	MP4, AVI, MOV	MPEG-4 (SP) standard	DSC, Internet streaming, Editor

\* File extensions of MPEG-2, WMV, and DivX should be converted into avi or mp4 by the program "Pholio trans-converter" of MPIXAR. Pholio trans-converter controls the frame rate and resolution for the proper operation of the content. File in an extension SWF (Shock wave flash) can also be converted into "avi" format.

## Installation

Unpack the Digital Media Topper from its box.

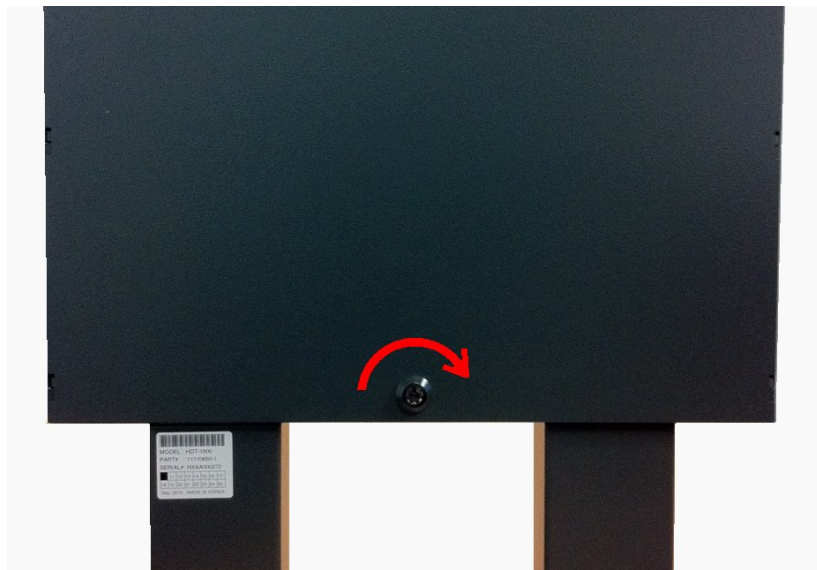
There should already be a mounting bracket installed. There are different brackets depending if your application (ATM) has a flat top, or an angled top.

If you're going to be connecting your device to the internet, you'll need to install an Ethernet cable into the sign before mounting it to the top of the ATM. The following steps will assist in that procedure.

**If you are not connecting your topper to the internet, then skip the following steps and proceed to 'Insert Compact Flash Card'.**

To begin, remove the back cover from the topper.

Using one of the provided keys, remove the back panel by unlocking (turn key clock-wise) and then lifting up on the panel.



Next remove the 8 screws that secure the base to the topper.





Locate the Ethernet jack (see picture)

Attach your Ethernet cable and route it down the topper mount next to the power cable as shown.

Use a nylon zip-tie to secure the cable to the power cord.

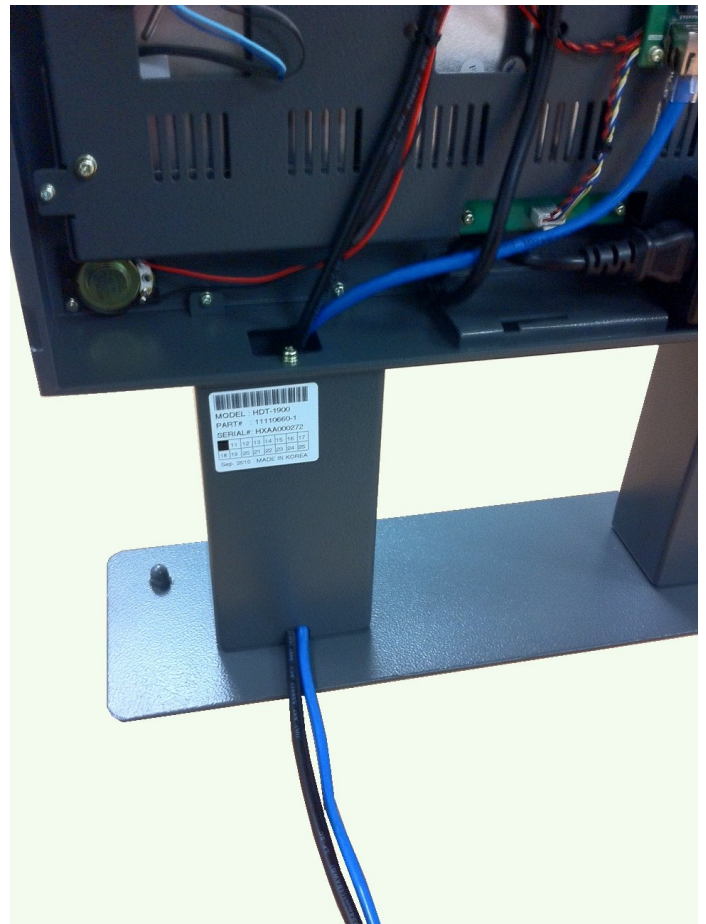


Make sure the cables are not pinched at the base, and then reattach the mounting bracket.

Use the remaining nylon zip-ties to secure the Ethernet cable to the power cord.

Connect Ethernet cable to network connection.

Replace the base plate using the original screws.

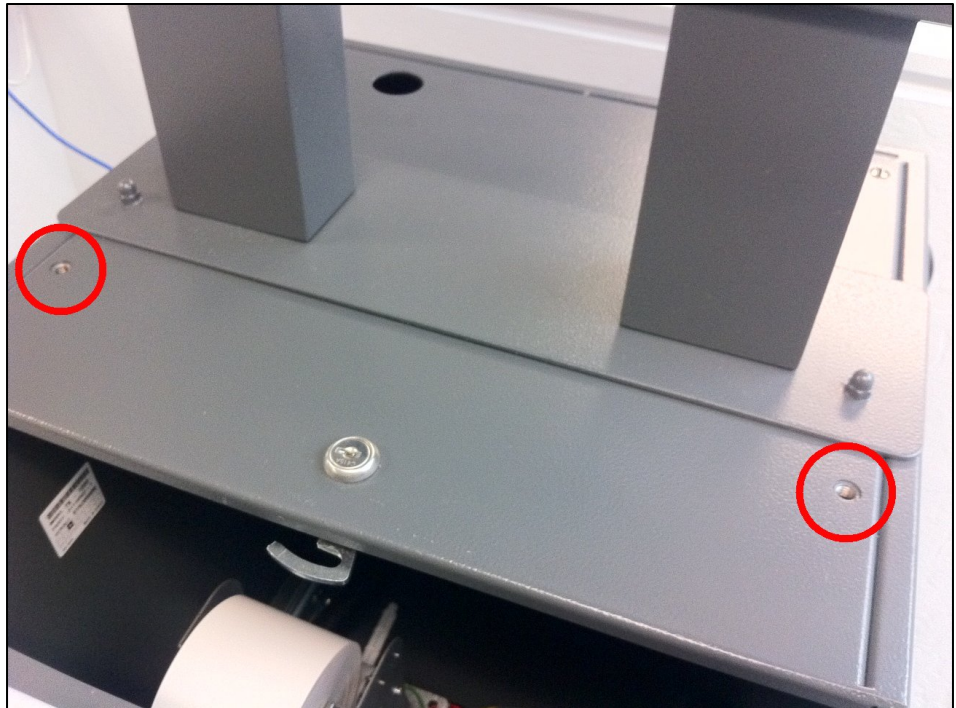


Once the base plate has been re-installed, you're now ready to mount the Digital Media Topper to your machine.

It may be necessary to remove some plastic plugs from the top of the machine.

Pop out any plugs by pushing outward from within the inside.

Next line up the holes with the nuts built in the topper base.



Using the hardware provided with the sign, install the two bolts from inside the top housing of the ATM or kiosk into the topper base.

Note that the screws will be a smaller diameter than the threaded holes built into the top of the machine. This is intentional.

Tighten the bolts so that they are snug and don't allow the topper to wiggle around.





The Digital Media Topper uses an internal memory device that is installed into a socket on the main control board inside the topper.

There are sockets for both Secure-Digital (SD-Memory) as well as Compact Flash Memory.

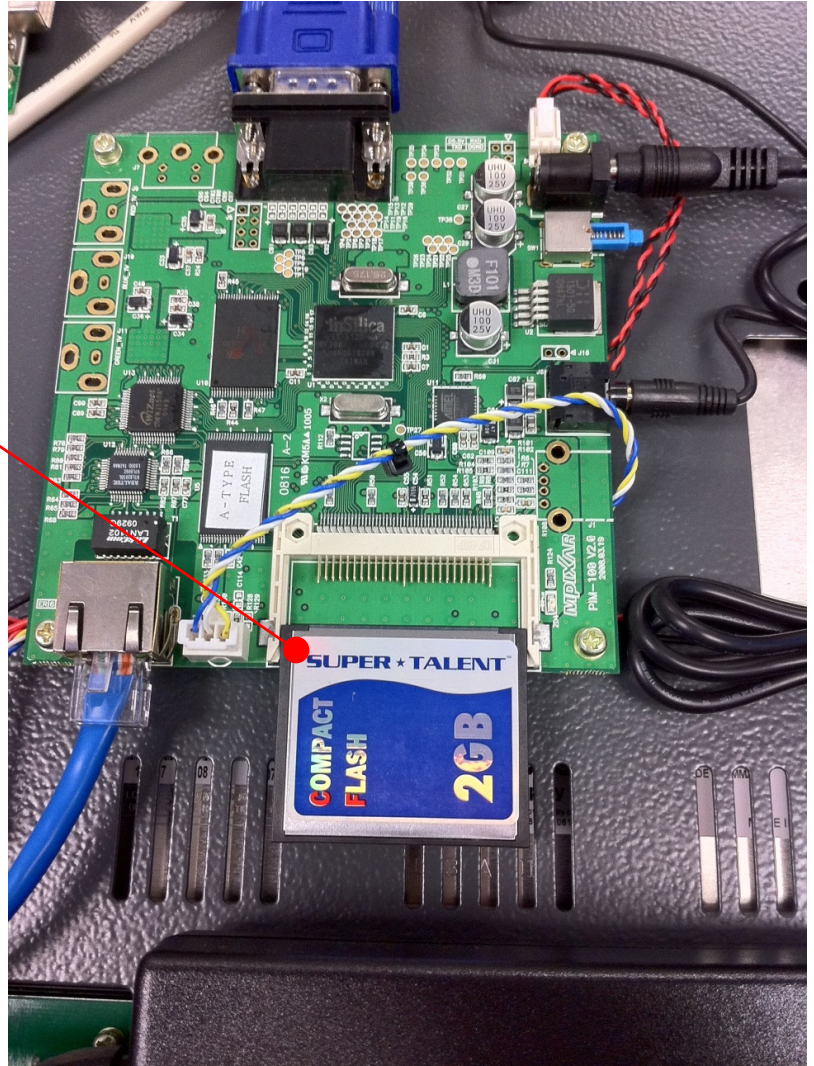
The Digital Media Topper ships with a 1GB Compact Flash Memory Device.

With the cover removed, locate the memory socket on the control board above the internal power supply.

Line up the slots on the socket with the grooves in the memory card.

Press the card up into the pins carefully.

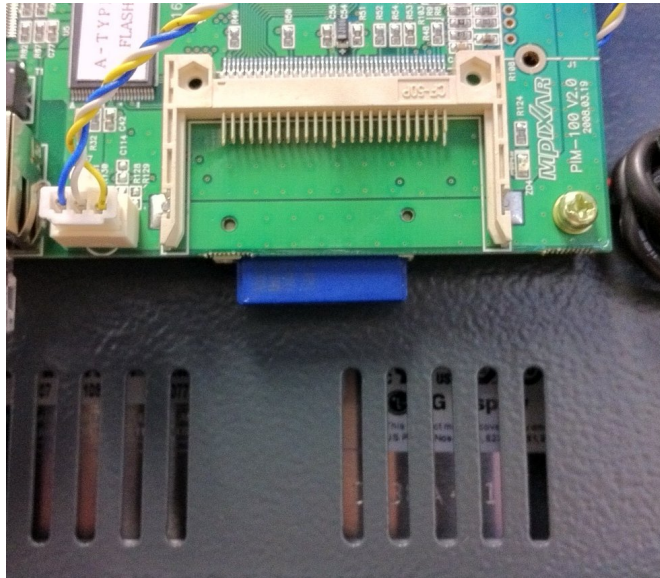
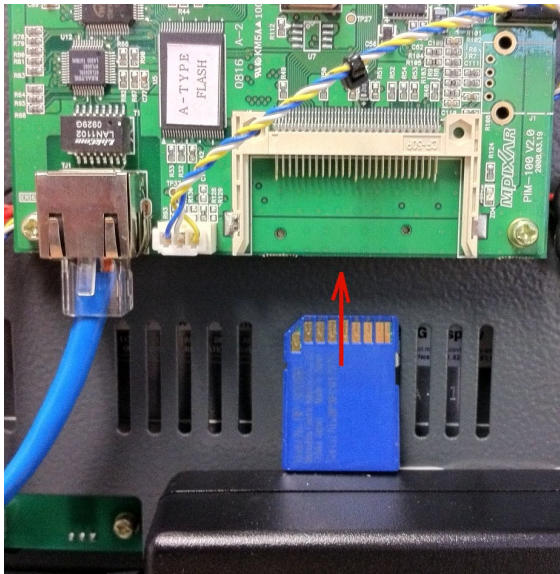
The card should fully seat in the socket covering all the pins.





If you decide to use a SD memory card rather than the compact flash device, the socket for the SD card is located on the back side of the circuit board (underneath the compact flash socket).

Insert the SD card into the slot as shown below and it should click to lock in place.



You're now ready to power on your Digital Media Topper. Connect your power cable to a grounded outlet and then press the power button on the rear control panel.



Press switch to turn on LED



When you press the power button, you should see a Green LED light turn on next to the memory card. If you do not, then you need to turn on the main control board by pressing the blue switch shown in the picture on the right.

## Adjusting the LCD Display

There are two menu systems to control the Digital Media Topper. Use the following to adjust the hardware setup for the LCD panel itself.

To access this menu, use the control panel located behind the locked rear cover of the topper. Remove the back panel using the key provided and locate the control panel.

Use the controls to access the LCD control menu.

**MENU** = Press to access LCD the menu.

**SELECT** = Select selected item

**POWER** = Main Power Switch

**DOWN** = Move menu selection down

**UP** = Move menu selection up





Activating this menu will bring up the following on-screen menu:

By default, this should not require adjustment, however you may need to adjust contrast, brightness or colors to achieve best performance.

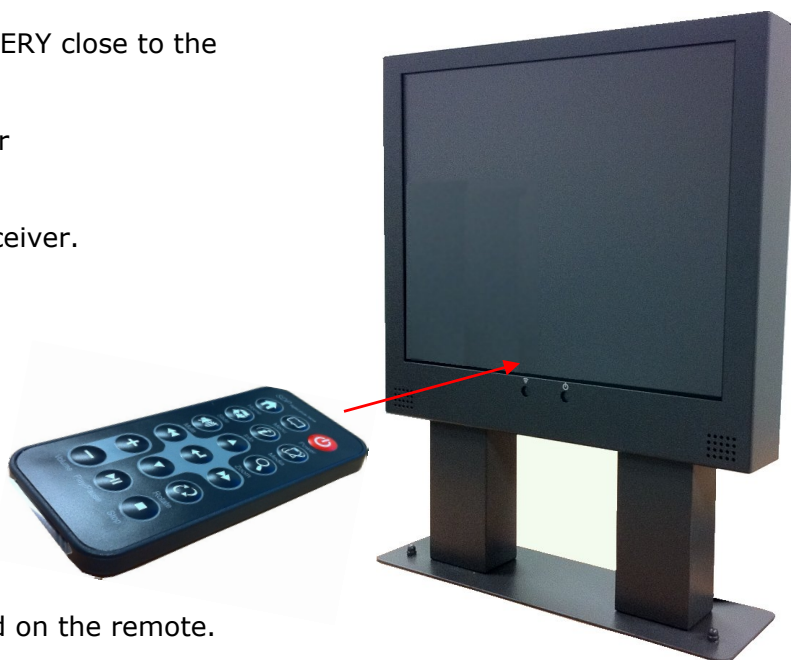


Use the Up and Down buttons on the rear control panel to move the cursor, and select to choose options. Note that the remote control will not work with the LCD Setup menu, only the rear control panel.

When using the remote control, it must be VERY close to the topper to operate.

Hold the remote right up against the receiver at the bottom of the LCD panel.

Keep the remote level and pointed at the receiver.



The following chart details the controls found on the remote.

Below represents the main screen you'll see after powering up the Digital Media Topper.

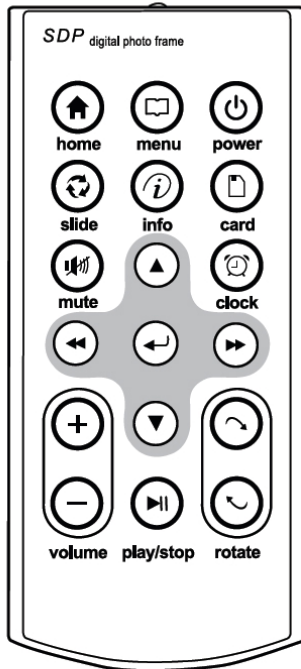


For Setup menu operations, you'll need to use the included remote control.



Familiarize yourself with the basic functions. In most cases you'll be using the up, down, left and right arrow and the center (OK) key to select.

## Usage of Remote controller



BUTTON	NAME	DESCRIPTION
	Home	Home menu
	Menu	Pop up menu
	Power	Power on / off
	Slide	Start slide show
	Info	Display information or status
	Card	Select one of memory card if it's multiple
	Mute	Mute the audio
	Clock	No function on Digital Topper
	Up/Down	
	Left/Right	
	OK	
	Volume	
	Play/Pause	
	Rotate	Rotate the picture for landscape and portrait control

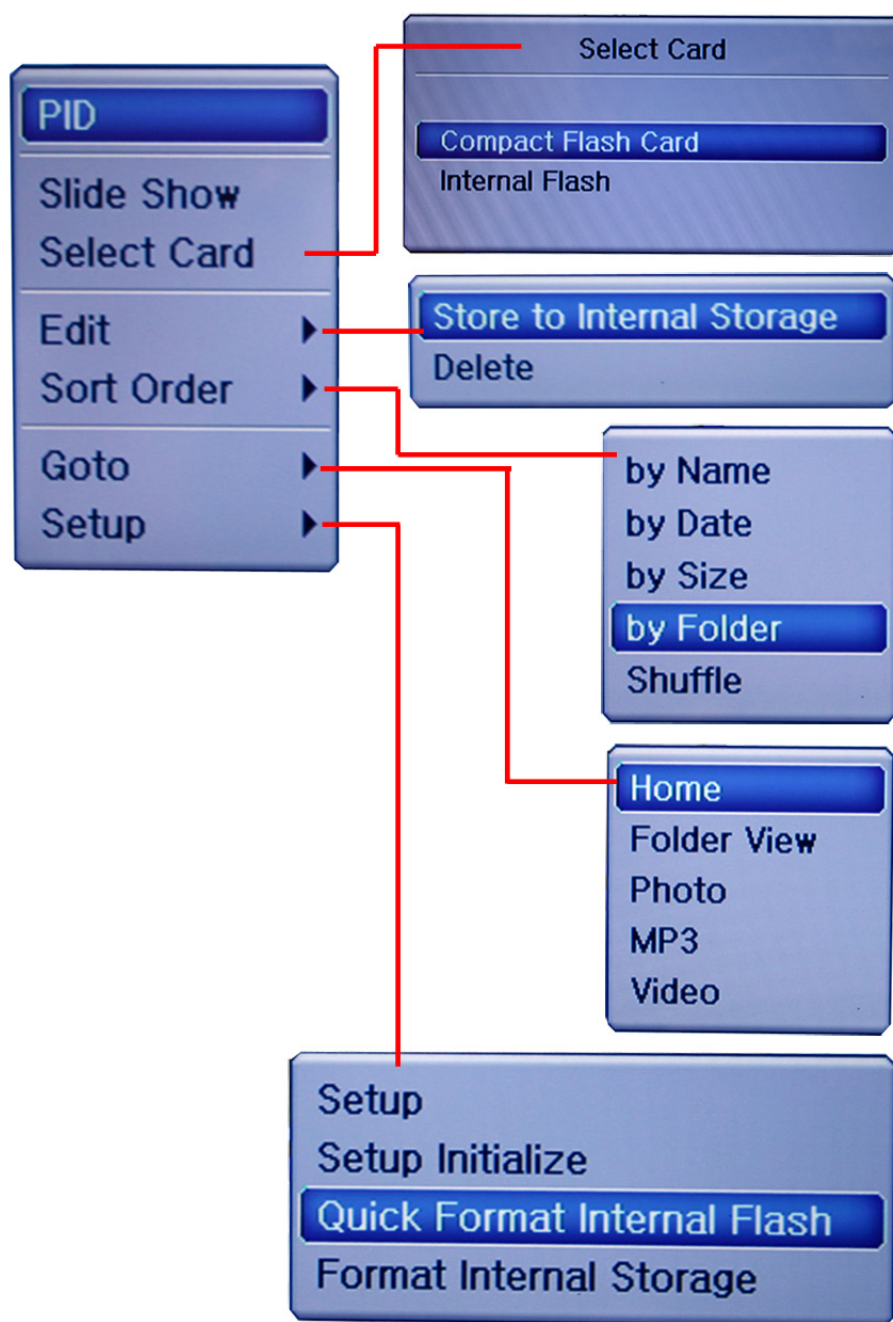
Remember when using the remote control, it must be held in close proximity to the receiver below the LCD screen on the topper. Keep the remote level and aim it directly at the receiver.

The remote ships with a battery installed (remove plastic tab to use).

Battery can be replaced with a CR2025 or compatible.

Press the 'Menu' button to access the Main Topper menu.

Below shows the complete menu structure:



## Creating Digital Media

The Digital Media Topper will display a variety of formats and files of various resolutions and sizes, however for best performance, media files should be created with the following guidelines:

### **Photos:**

Use images sized at 1024x768 pixels. 32-bit color (recommended)

When naming files, it's recommended not to use spaces in the file name. Use underscores if needed.

Example My Photo 01.jpg should be saved as My\_Photo\_01.jpg

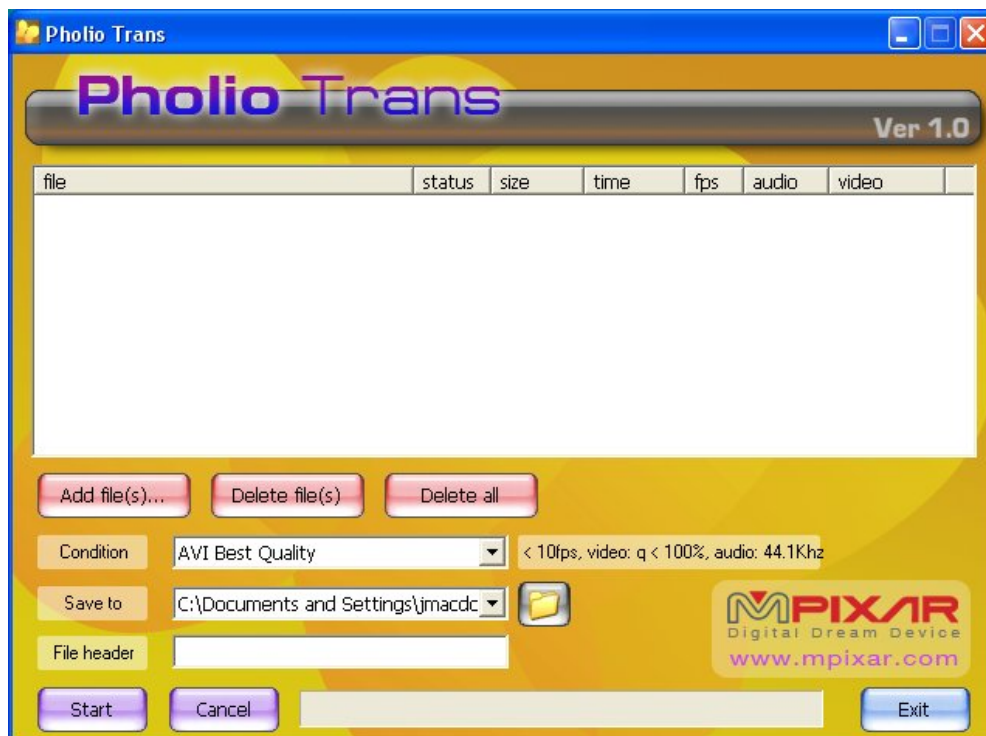
### **Video:**

Video is best formatted at 640x480 resolution (AVI, MPG)

Use the available video conversion utility to convert any video file before loading on the topper.

Available at: <http://ftp.genmega.com/DigitalTopper/PholioTrans.zip>

Unzip and install PholioTrans



Use the 'Add Files' button to import video files for conversion.

Use the 'Save to' button (folder) to select where the converted files should be saved

Click Start to begin the process. Depending on file size, the process is fairly quick.

These converted files will still play on your computer so keep them separated so they don't get confused with the originals. PholioTrans is for AVI and MPG video and not for still images.

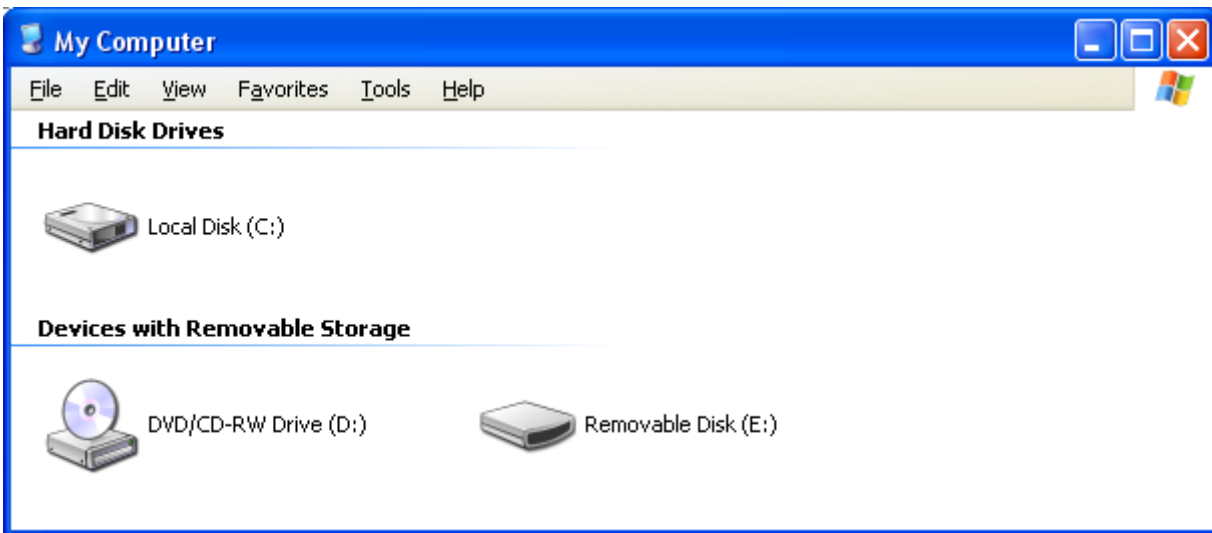
## Manually Adding Media Files

Media files can be manually copied to the compact flash memory card included with the topper.

If your computer or laptop is not already equipped, you may need to get a media adapter so that you can read and write to the compact flash card.

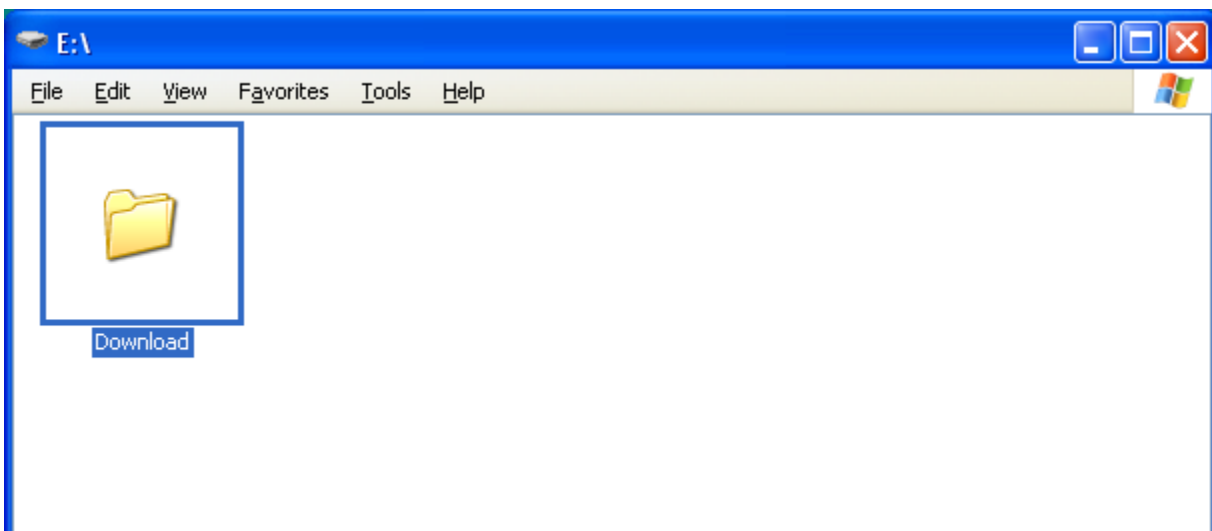
The compact flash card included with the digital topper has a capacity of 1GB, make sure the media files you intend on copying to the sign do not exceed that capacity.

The compact flash memory card will appear on your computer as 'Removable Media' or 'Removable Disk'. Copy files to this device by dragging them or using cut / paste.

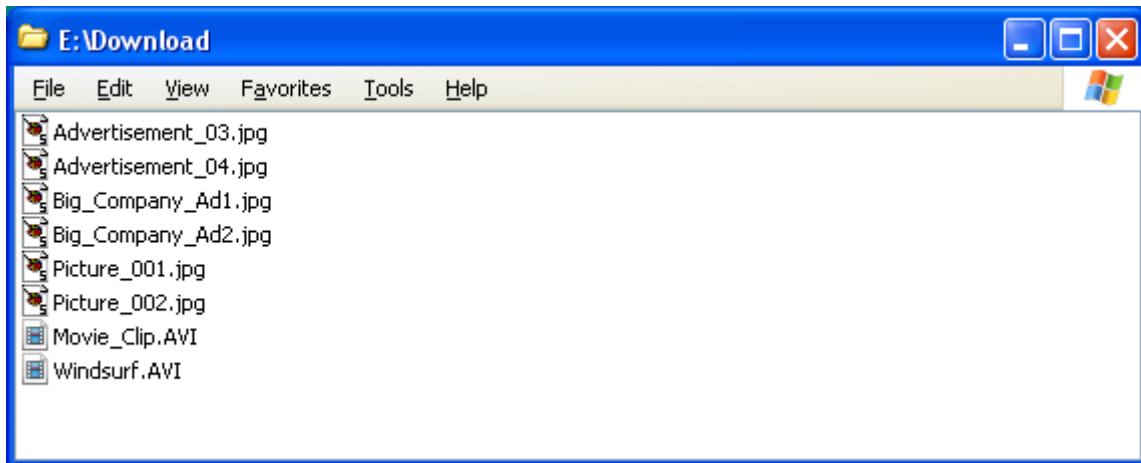


Before copying files to the compact flash card, you'll need to create a folder on the flash card called 'Download'.

From the screen above, click on the removable disk icon and then right click the File Menu and New Folder. Name the new folder 'Download' as shown below.





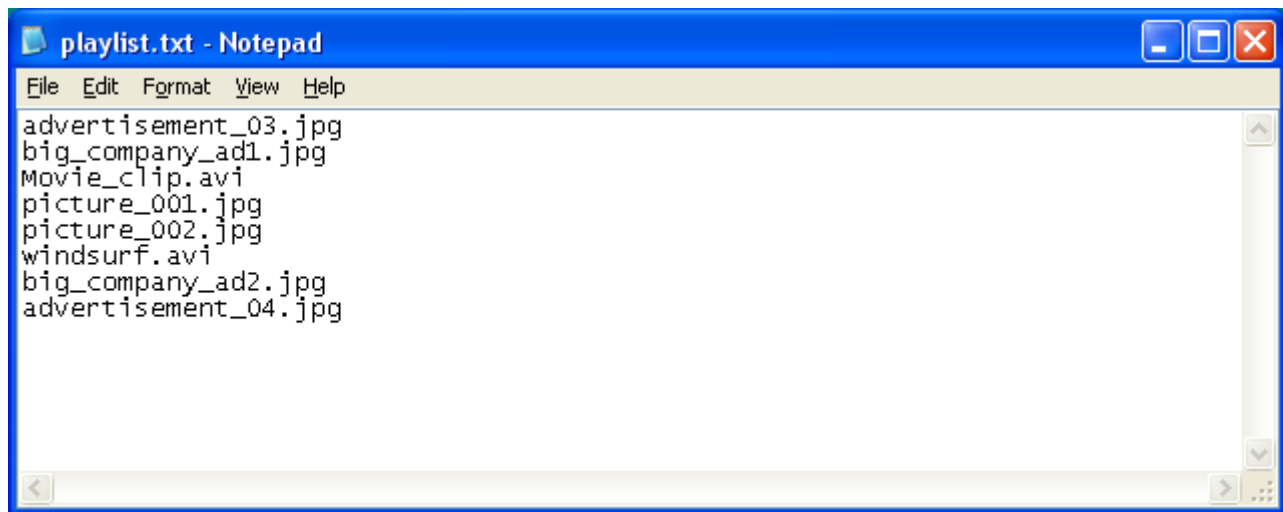


Now you can copy your media files into the Download folder on the flash card.

Once you have copied the media files, all file names (pictures / video) that are copied to the memory card, must then be listed in a Playlist file that you'll now create.

Open a new document in 'Notepad', save the document name as 'playlist.txt'

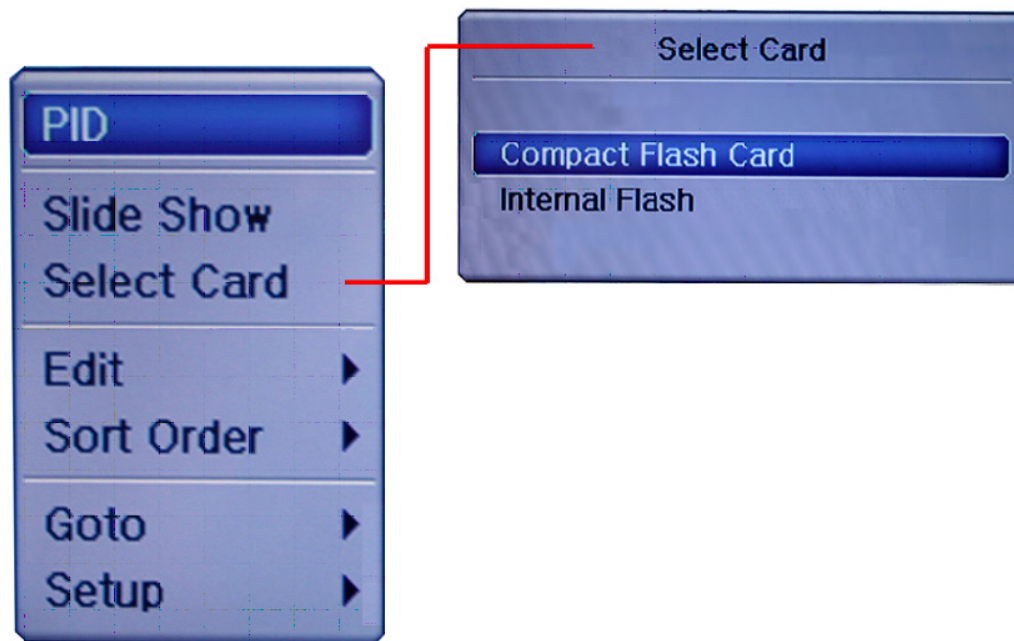
List the media files in the order you want them to be shown, see example below.



When you're done, copy the playlist.txt file to the compact flash card in the Download folder. The playlist must be in the folder with the media files.

You can now insert the flash card back into the topper sign. (see Installation section of manual)

To play the files, Press the 'Home' button on the remote control and access the Topper Menu. Go to 'Select Card' and then choose 'Compact Flash Card'



By default this should already be selected.

Now press the 'Home' button on the remote and then the 'Slide' button to begin showing your images. NOTE: In most cases, when you insert the memory card with correct playlist file, the images will start playing immediately and you will not need to access the menu first. If the files do not auto-play, then try starting from the menu.

If you wish to copy the files from the Compact Flash (or SD) memory card to the internal memory of the digital media topper, choose the Edit menu (see above) and then select 'Store to Internal Storage'

This will copy all the files to the signs internal memory. After doing that you can remove the memory device from the sign.

## Media Setup Menu



The media setup menu gives access to options that can be used to change how your media is presented. From within this Media Setup Menu are the following options:

<b>System Information:</b>	Gives firmware version and available memory for devices.
<b>Slide Show</b>	
- Slide Show Interval	1,2,3,5,10,30,60 second and 5, 10 minute interval between slides.
- Auto Slide Show	5,10 second and 10, 30, 60 minute interval before restarting.
- Select Transition Effect*	Spiral, Random, Interlace, Circle, Random, All
- Slide Show with MP3	Plays MP3 files with Slide Show
- Slide Show with Clock	If Info Bar is set to 'Show' will display clock time
<b>Audio</b>	
- Set Beep Sound*	Small Beep, Large Beep, Off
- Internal Speaker Sound	On / Off
<b>System Configuration</b>	
- Info Bar Show	Show, Hide, Auto
- Language	English, Spanish, Japanese, Korean
- Picture Display Resolution	1024x768 60Hz (VESA DMT) Default
<b>Network Configurations</b>	See Network Section
<b>Network Server Configuration</b>	
<b>Configuration PID</b>	

*\* Note: Some features such as Transition Effects, and internal Beep may not be available*

## Network Setup

The Digital Media topper sign can be connected to a server via the internet which can be used to update content on one or thousands of different signs simultaneously. This also allows for unique content to be sent to each sign individually.

To use this feature, you'll need to setup a webserver, or other PC that has a publicly addressable IP. This should be a static IP address that can be accessed from locations where your signs are.

Consult with your internet provider or IT staff for how to obtain a static public IP address for the PC you want to control your images/media.

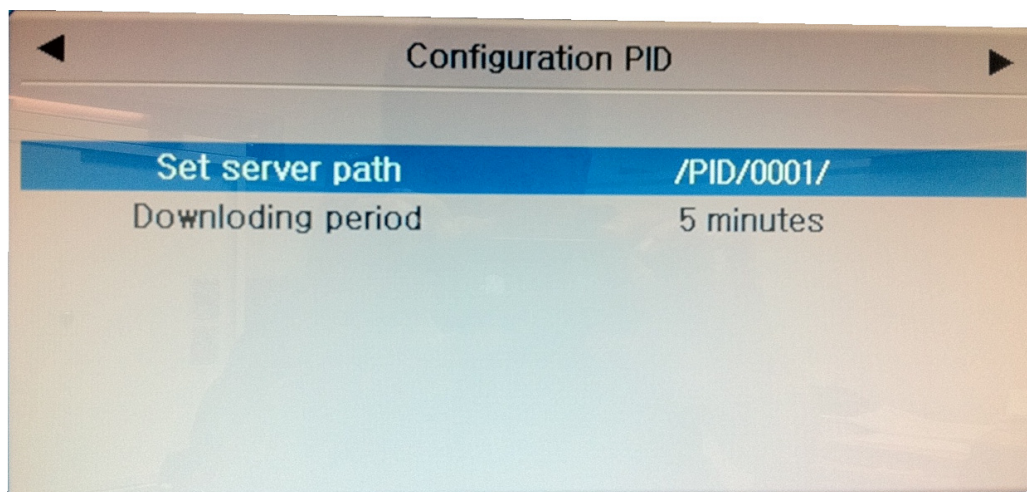
The topper can be set to receive TCP/IP data over port 80 or port 8080.

You must store the data on your server in the following path:

/PID/xxxx/

xxxx = four digit number used to uniquely identify each sign.

If you're going to send the same media to all your signs, then use the same number 0001 (as example) and then you'll program each sign with the same path (/PID/0001/) which is done in the Configuration PID menu.



If you want to send different data to each sign (or some signs) then create sub-folders for those signs with incremented numbers 0002, 0003, 0004 ..etc. up to 9999.

Then you must match the path on each individual sign in the menu shown above.

In each path folder, you'll copy the media files (images / video) and each folder must have a playlist.txt file as explained on page 17. This text file must contain the name and play order of each file to be shown on the topper. When the topper connects to the server, it will upload all files (including the playlist.txt) from the path programmed in the topper.



When creating your sever, as a test you should be able to browse the media through another computers web browser.

For example: you create a media server with the public IP address of 224.110.7.123 on port 80, then you setup a path structure of /PID/0001 and copy some media (photo.jpg) to that folder.

If I use a second computer with internet access, and open the browser (Internet Explorer, Firefox) in the address line, I should be able to type the following:

`http://224.110.7.123:80/PID/0001/photo.jpg` and hit Enter

In the browser window, you should now see whatever image that photo.jpg represents. If not, then the digital media topper will not see the image either.

To setup the internet access on the topper. Begin by setting the network configuration menu.

Network Configurations	
IP Address Setting	DHCP
IP Address	10.0.0.76
Subnet Mask	255.255.255.0
Gateway	10.0.0.50
DNS Server	10.0.0.25

If the local internet at the location where the topper is installed is a simple broadband connection (DSL or Cable Modem) you can plug in the internet cable and then select DHCP from the IP Address Setting. If successful, you'll see the fields below populate with IP Address, Subnet, Gateway and DNS. This is the most common setup procedure.

However, if for some reason you need to use STATIC to program the IP configuration manually, then select that from the IP Address Setting Menu.

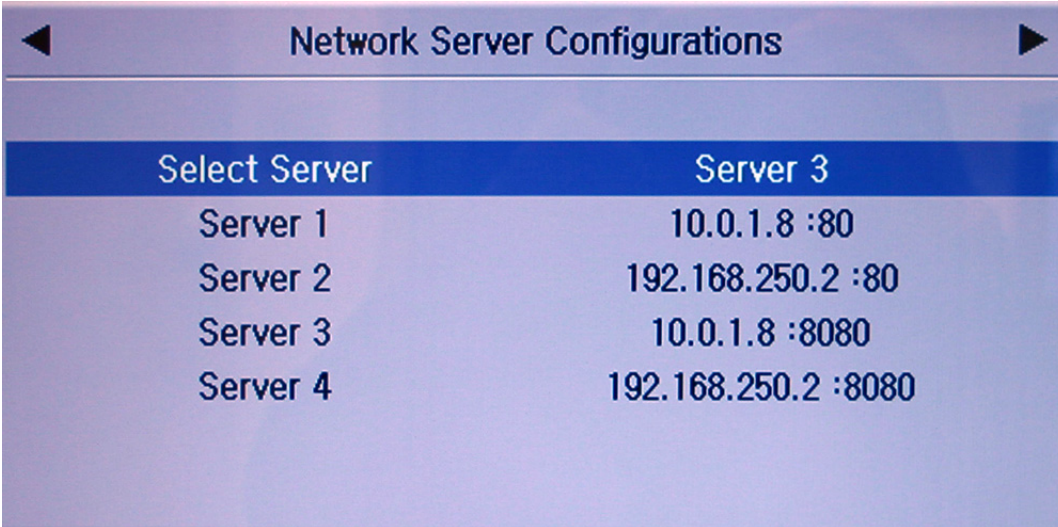
Next you'll need to program the topper with the publicly available IP address and port for your media server.

Use the Network Server Configurations menu below.

You can store up to 4 individual servers in this menu, although likely you'll only use one.

Server 1 and 2 should be used if you'll be connecting to your media server on port 80 (most likely), and server 3 and 4 should be used for port 8080.

Edit the Server number with the address of your media server, and then select that server number in the 'Select Server' line. The server shown in the Select Server line is the current active server.



Network Server Configurations	
Select Server	Server 3
Server 1	10.0.1.8 :80
Server 2	192.168.250.2 :80
Server 3	10.0.1.8 :8080
Server 4	192.168.250.2 :8080

There is an interval setting which determines how often the topper will check with the server to determine if there are new files to be uploaded. This is in the Configuration PID menu. (Page 20)

The interval can be set to 5, 10, 30 minutes, or 1, 4, 12, 24 hours.

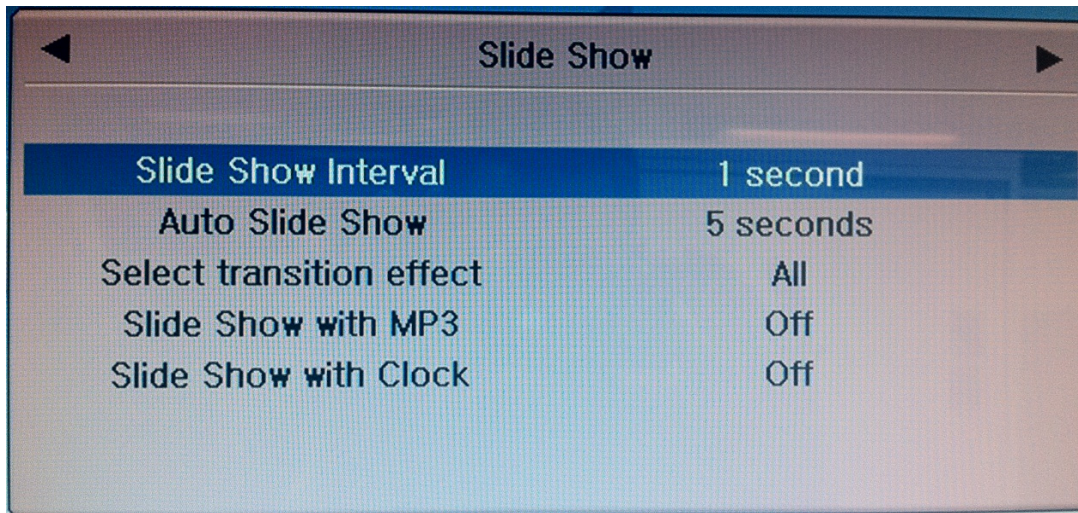
At the specified interval, the topper will connect to the server and compare the playlist.txt file. If there are any changes, the topper will upload the new playlist as well as any new media files contained in the playlist.

This action will repeat at every interval time.

## Playback Troubleshooting:

If images are taking a long time to load, verify the file size and resolution. Reduce larger images to 1024x768 for best performance.

If your images are scrolling too quickly, you can adjust the interval. Press 'Home' on your remote and scroll to the right (Setup Icon) from within that menu you'll find the slide show interval settings.



If you see garbled portions of a picture, or the top of the image has random colored pixels, it may be that you have an image in your playlist that is not formatted properly, or is corrupted. Remove all images from the memory card and then add images back one at a time to find the image causing the problem.

Videos converted for use with the sign can require editing (size, resolution, compression codec) for best playback on the digital media topper. Check the Specifications page for optimum file settings.

If your video does not play audio, or the audio and video are not synced up properly. Change the recording setting when saving your video file. Reduce the sound quality to more standard settings, and recompile the video.